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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re PATENT application of: )  
Murat BELGE et al. )  
Serial No. 09/925,509 ) Art Unit: 2634  
Filed: August 10, 2001 ) Attn: Application Branch  
For: SYSTEMS AND METHODS FOR CHARACTERIZING )  
TRANSMISSION LINES USING BROADBAND )  
IN A MULTI-CARRIER DSL ENVIRONMENT )

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Washington, DC 20231  
Sir:

May 22, 2002

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

The documents are being submitted within three (3) months of the filing of this application or entry into the national stage of this application, or before the first Office Action on the merits, whichever is later, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

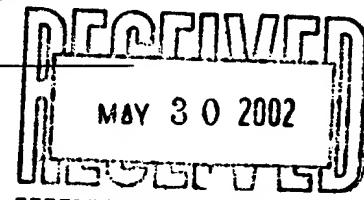
It is requested that the accompanying information disclosure statement be considered and made of record in the above-identified application. To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that the Examiner return an initialed copy of this form to the undersigned.

The Commissioner is hereby authorized to charge any fees connected with this filing which may be required now, or credit any overpayment to Deposit Account No. 19-2380 (081513-71).

Respectfully submitted,

By:

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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><i>(use as many sheets as necessary)</i> |   |    |   | <i>Complete if Known</i> |                    |
| Substitute for form 1449A<br><i>U.S. PATENT &amp; TRADEMARK OFFICE</i>                               |   |    |   | Application Number       | 09/925,509         |
|  |   |    |   | Filing Date              | August 10, 2001    |
|  |   |    |   | First Named Inventor     | Murat Belge et al. |
|  |   |    |   | Group Art Unit           | 2634               |
|  |   |    |   | Examiner Name            | Not yet assigned   |
| Sheet  | 1 | of | 1 | Attorney Docket Number   | 081513-71          |

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| U.S. PATENT DOCUMENTS          |                       |                      |                                      |   |   |   |
|--------------------------------|-----------------------|----------------------|--------------------------------------|---|---|---|
| Examiner Initials <sup>1</sup> | Cite No. <sup>1</sup> | U.S. Patent Document |                                      | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                                |                       | Number               | Kind Code <sup>2</sup><br>(if known) |   |   |   |
|                                |                       | 5,128,619            |                                      | Bjork et al.                                    | 07/07/1992  |   |
|                                |                       | 5,864,602            |                                      | Needle  | 01/26/1999  |   |
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|                                |                       |                      |                                      |   |   |   |

| FOREIGN PATENT DOCUMENTS       |                       |                         |                                   |   |   |   |                |
|--------------------------------|-----------------------|-------------------------|-----------------------------------|---|---|---|----------------|
| Examiner Initials <sup>1</sup> | Cite No. <sup>1</sup> | Foreign Patent Document |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>6</sup> |
|                                |                       | Office <sup>3</sup>     | Number <sup>4</sup><br>(if known) |   |   |   |                |
|                                |                       | WO 00/64130             | A2                                | Rudinski et al.                                 | 10/26/2000  |   |                |
|                                |                       | WO 99/26375             | A2                                | Hakanson  | 05/27/1999  |   |                |
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|                                |                       |                         |                                   |   |   |   |                |
|                                |                       |                         |                                   |   |   |   |                |

| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS |                       |   |  |  |  |                |
|---|-----------------------|---|--|--|--|----------------|
| Examiner Initials <sup>1</sup>                    | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |  |  |  | T <sup>2</sup> |
|   |                       | Boets P. et al.: "The Modeling Aspect of Transmission Line Networks" Proceedings Of The Instrumentation And Measurement Technology Conference, US, New York, IEEE, 12 May 1992, pages 137-141, XP000343913 ISBN: 0-7803-0640-6.                                 |  |  |  |                |
|   |                       | Lewis L. et al.: "Extending Trouble Ticket Systems To Fault Diagnostics" IEEE Network, November 1993, pages 44-51, XP 000575228   |  |  |  |                |
|   |                       | Related U.S. Patent Application Serial No. 09/755,173.  |  |  |  |                |
|   |                       | Related U.S. Patent Application Serial No. 09/755,172.  |  |  |  |                |

|                    |                 |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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